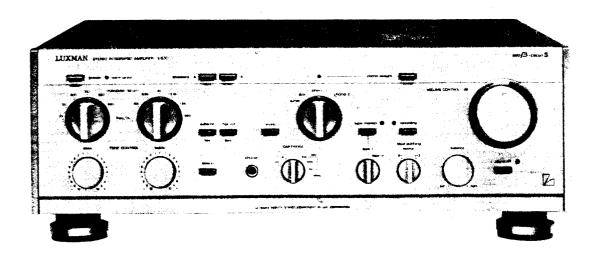


**Duo-Beta Circuit/S Stereo Integrated Amplifier** 

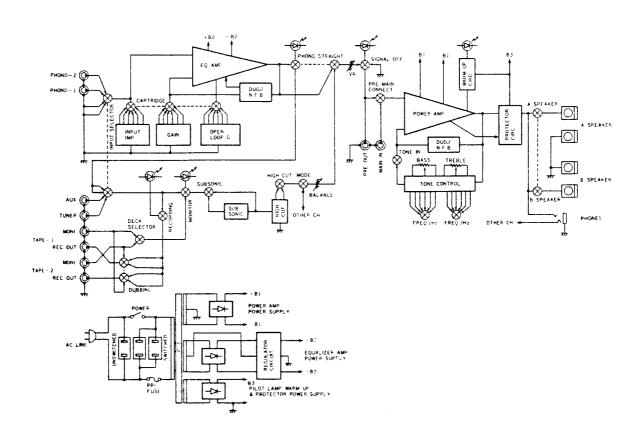
# L-510/L-530



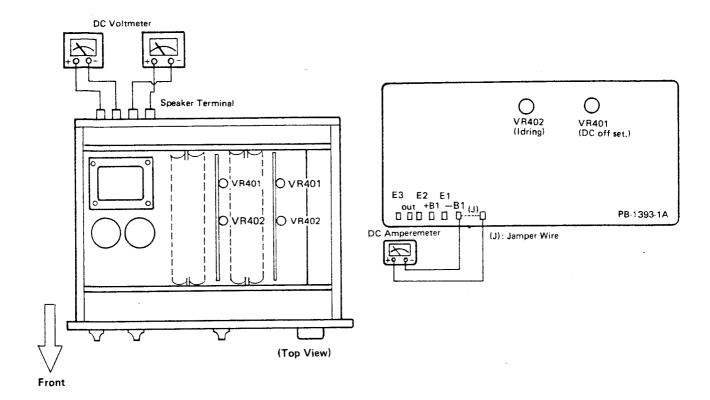
### **Contents**

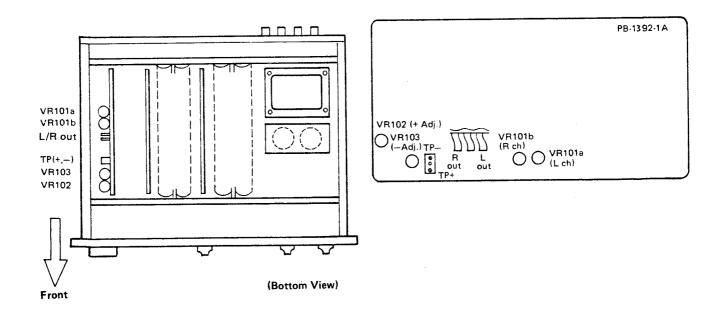
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### **Block Diagram**



### **Adjustment Locations**





#### Alignment Procedure

1. Alignment of Mainamp. section DC Offset and Idling Current

(1) Setting Conditions

Volume Control: Balance Control:

minimum center point

Tone Control:

Speaker Selector Switch:

VR401(DC Offset adjusting VR): center point

VR402(Idling Current adjusting VR): Turn counter clockwise to

the end.

(2) Connect a DC voltmeter to Speaker Terminals A.

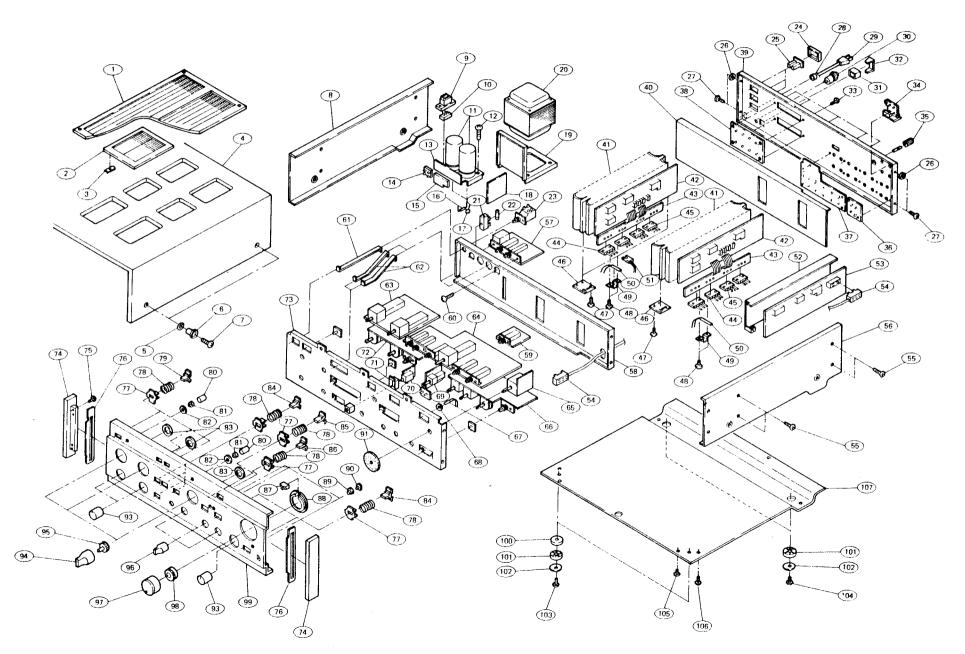
- (3) Disconnect the plated wires (jumper wires) connected to the terminals shown on the main PCB(PB-1391-1) and connect a DC amperemeter to the terminals for both L-CH and R-CH.
- (4) Press to switch Power Switch ON and after one minute adjust VR402 to make the amperemeter connected in the above-mentioned procedure No. 3 read 150mA. Then, adjust VR402 for another channel again. But in this case, idling current for this channel should be matched to the idling current adjusted first with the another channel since the idling current adjusted first must have been increased.

Remarks: This adjustment should be done when the unit is cooled off. (Value of the primary current is 1.5 - 2.5A).

- (5) Adjust VR401 to make the DC voltmeter connected to Speaker Terminals A in the procedure No. 2 read OV(within +50mV).
- Alignment of Equalizer section DC Offset
  - (1) Adjust VR102(positive) and VR103(negative) to make the DC voltmeter connected to the test-point, TP(positive) and TP (negative) of 3-P connector read +30V and -30V respectively.
  - (2) Connect a DC voltmeter to REC-OUT and adjust VR101a(L-CH) and VR101b(R-CH) to make the voltmeter read OV on L-Out and R-Out. This adjustment shall be made easier by setting Cartridge Impedance Selector between MC 40-ohm and 300-ohm and making servo timeconstant smaller with eventual connection of resistance of 1.5M-Ohm and 68K-Ohm in parallel in its circuitry.

Remarks: Note that no wind should be admitted once the inside temperature of the unit has got stable as voltage may fluctuate if so.

### **Exploded View**



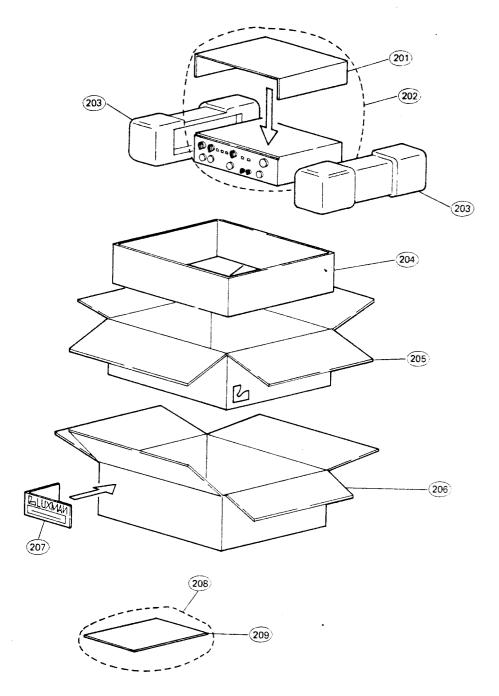
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### **Exploded View Parts List**

| Symbol | No. Parts No<br>(L-510) | Parts No. (L-530) | Description              |              | Q'  |
|--------|-------------------------|-------------------|--------------------------|--------------|-----|
| ī      |                         |                   | Ventilation              | (J,U)        | +   |
| 2      | WT1005A                 | WT1005A           | Ventilation              | (A)          | 6   |
| 3      | YNEO50B                 | YNEO50B           | Nut, 5F                  | (J)          |     |
| 4      | WB1101                  | WB1101            |                          |              | 24  |
| 4      | WB1096                  | WB1096            | Wooden Case              | (A)          | 1   |
| 5      | YWA040A                 |                   | Wooden Case              | (J,U)        | 1   |
| 6      |                         | YWA040A           | Washer, 4¢               |              | 4   |
|        | WD1144                  | WD1144            | Escutcheon               |              | 4   |
| 7      | YAA40C20                | YAA40C20          | Screw, M4x20             |              | 4   |
| 8      | UD1055                  | UD1055            | Panel, Side              |              | 1   |
| 9      | AC0054                  | AC0054            | Socket, Voltage Selector | (A)          | 1   |
| 10     | AC0014                  | AC0014            | Plug, Voltage Selector   | (A)          | ī   |
| 11     | CE1453                  |                   | Cap, 63WV 15,000uF       | ()           | 2   |
|        |                         | CE1456            | Cap, 71WV 30,000uF       |              | 2   |
| 12     | YJB30A06                | 0.52430           |                          |              |     |
| 12     | LODOWNO                 | V 171/040/        | Screw, M3x6 TP           |              | 4   |
| 1.2    | WD3 222                 | YJB40A06          | Screw, M4x6 TP           |              | 4   |
| 13     | UR1332                  | UR1332            | Bkt., 1332               |              | 1   |
| 14     | TD0110                  | j                 | Diode, S5VB40F           |              | 1   |
|        |                         | TD0182            | Diode, S10VB40F          |              | 1   |
| 15     |                         |                   | PB-1394-B                |              | 1   |
| 16     | CQ0184                  | CQ0184            | Cap, 120V 1,500pF St     |              | 2   |
| 17     | CQ2006                  | CQ2006            | Cap, 120V 0.47uF Ft      |              | 2   |
| 18     | 1 - 1 - 1 - 1           | 10000             | PB-1392-2                |              | 1   |
| 19     | UR1330                  | UR1330            |                          |              |     |
| 20     | PT2583                  | UK1330            | Bkt., 1330               | (*)          | 1   |
| 20     |                         |                   | Trans, Power P-2583      | (J)          | 1   |
|        | PT2583                  | 1                 | Trans, Power P-2585      | (E)          | 1   |
|        | PT2585A                 |                   | Trans, Power P-2585A     | (A)          | 1   |
|        | i i                     | PT2587            | Trans, Power P-2587      | (J)          | 1   |
|        | İ                       | PT2589            | Trans, Power P-2589      | (E)          | 1   |
|        |                         | PT2589A           | Trans, Power P-2589A     | (A)          | l ī |
| 21     | AH0016                  | AH0016            | Holder, Fuse             | (J)          | li  |
|        | AH0019                  | AH0019            | Holder, Fuse             |              |     |
| 22     | BF0400                  | Miloury           |                          | (A)          | 1   |
| 2.2    |                         |                   | Fuse 6A                  | (J)          | 1   |
|        | BF0213                  | BF0213            | Fuse 4A                  | (A)          | 1   |
| •      |                         | BF0403            | Fuse 7A                  | (J)          | 1   |
| 23     | SP0090                  | SP0090            | SW, Power                | (A)          | 1.  |
|        | SP0037                  | SP0037            | SW, Power                | (J)          | 1   |
| 24     | UJ1092                  | UJ1092            | Cover                    | (A)          | 3   |
| 25     | AC0010                  | AC0010            | Outlet, AC               | (A)          | 3   |
|        | AC0055                  | AC0055            | Outlet, AC               | (J)          | 3   |
| 26     | YWEQ40A                 | YWE040A           | Washer, 4¢               | (3)          | 2   |
| 27     | YJB40A08                | YJB40A08          |                          |              |     |
| 28     |                         |                   | Screw, M4x8              |              | 4   |
| 20     | BU0033                  | BU0033            | Bush, Cord               | (AK,AD,AM)   | 1   |
|        | BU0039                  | BU0039            | Bush, Cord               | (AG)         | 1   |
|        | BU0080                  | BU0080            | Bush, Cord               | (J)          | 1   |
| 29     | BK0018                  | BK0018            | AC Cord                  | (EZ)         | 1   |
|        | BK0022                  | BK0022            | AC Cord                  | (AK, AD, AM) | 1   |
|        | BK0023                  | BK0023            | AC Cord                  | (Ve)         | 1   |
|        | BK0048                  | BK0048            | AC Cord                  | (J)          | î   |
| 30     | AL0001                  | AL0001            | Lamp                     | (1)          | l   |
| 31     | UZ1244                  | UZ1244            |                          |              |     |
| 32     |                         |                   | Housing, LPS             | (J)          | 1   |
|        | UZ1245                  | UZ1245            | Terminal, LPS            | (J)          | L   |
| 33     | A1B30C08                | YJB30C08          | Screw                    |              | 1.4 |
| 34     | ł                       | ì                 | PB-1413                  | (AD)         | 1   |
|        |                         |                   | PB-1392-6A               |              | 1   |
| 35     | AG0048                  | AG0048            | Terminal, GND            |              | i   |
| 36     | 1                       |                   | PB-1394-7                |              | l i |
| 37     | 1                       |                   | PB-1394-5                |              | i   |
| 38     |                         |                   | PB-1392-3                |              | li  |
| 39     | UC1208-1                | UC1208-5          | Panel, Rear              | (J)          |     |
| 37     |                         |                   |                          |              | 1   |
|        | UC1208-2                | UC1208-6          | Panel, Rear              | (U)          | 1   |
|        | UC1208-3                | UC1208-7          | Panel, Rear              | (E)          | 1   |
|        | UC1219-1                | UC1209-2          | Panel, Rear              | (8)          | 1   |
| 40     | UH1035                  | UH1035            | Channel Channel          |              | 1   |
| 4.1    | BE1086                  | BE1086            | Heat Sink                |              | 2   |
|        |                         |                   |                          |              | 2   |

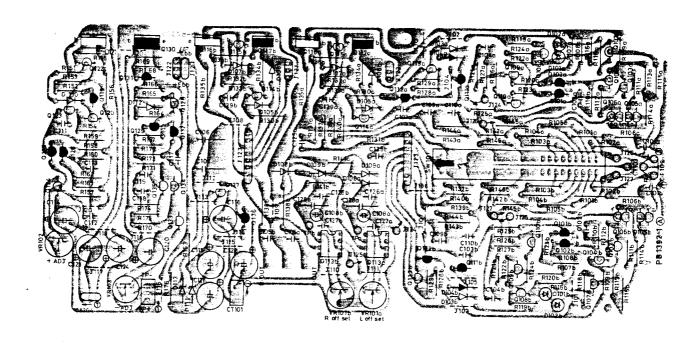
| Symbol | No. Parts No. (L-510) | Parts No. (L-530)                       | Description      | Q'ty |
|--------|-----------------------|---|------------------|------|
| 43     |                       | 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | PB-1393-2        | 2    |
| 44     | TRO 273               |   | TR, 2SA1075      | 4    |
|        |                       | TR0376                                  | TR, 2SA1076      | 4    |
| 45     | TR0272                | 111.570                                 | TR. 25C2525      | 4    |
|        |                       | TR0375                                  | TR, 28C2526      | 4    |
| 46     | UR1331                | UR1331                                  | Bkt.             | 4    |
| 47     | YJB30A08              | YJB30A08                                | Screw, M3x8      | 16   |
| 48     | YAA30A12              | YAA30A12                                | Screw, M3x12     | 8    |
| 49     | UR1401                | UR1401                                  | Bkt.             | 2    |
| 50     | AY1028                | AY1028                                  |                  | 2    |
| 51     | TV0026                | TV0026                                  | Relay, Protector |      |
| 52     |                       |   | Varistor STV-2H  | 2    |
| 53     | UK1121                | UK1121                                  | Plate            | 1    |
| 54     | 070000 1              |   | PB-1392-4        | 1    |
|        | SZ0023-1              | SZ0023-1                                | Label, Remote    | 1    |
| 55     | YJB40A08              | YJB40A08                                | Screw, M4x8      | 12   |
| 56     | บบ1055-1              | UD1055-1                                | Panel, Side      | 1    |
| 57     |                       |   | PB-1392-4        | 1    |
| 58     | UH1035-1              | UH1035-1                                | Channel          | 1    |
| 59     | i                     |   | PB-1394-3        | 1    |
| 60     | YJB30A06              | Y.JB.30A06                              | Screw            | 2    |
| 6.1    | UZ1294                | UZ1294                                  | Shaft            | 1    |
| 62     | UZ1293                | UZ1293                                  | Shaft            | 2    |
| 6.3    |                       |   | PB-1393-3        | 1    |
| 64     |                       |   | PB-1394-1        | 1    |
| 65     |                       |   | PB-1394-4        | 1    |
| 66     |                       |   | PB-1394-2        | 1    |
| 67     | VF0069                | AL0069                                  | Lamp, 12V 75MA   | 1    |
| 68     | UZ1077                | UZ1077                                  | Bush, Lamp       | i    |
| 69     |                       |   | -PB-1394-6       | i    |
| 70     |                       |   | PB-1392-5        | ì    |
| 71     | UK1126                | UK1126                                  | Plate            | 1    |
| 72     | 5103 1 20             | 081120                                  | PB-1393-4        | 1    |
| 73     | UB1074-1              | UB107/ 1                                |                  | 1    |
| 74     |                       | UB1074~1                                | Panel, Sub       | 1    |
|        | WC1037                | WC1037                                  | Ornament Plate   | 2    |
| 75     | YAA30A08              | YAA30A08                                | Screw, M3x8      | 4    |
| 76     | UW1153                | tiw1153                                 | Spacer           | 2    |
| 77     | WE1103                | WE1103                                  | Protector        | 11   |
| 78     | UU1042-1              | UU1042-1                                | Spring           | 11   |
| 79     | WJ1162-2              | WJ1162-2                                | Knob             | 3    |
| 80     | WZI188                | W21188                                  | Diffuser         | 2    |
| 81     | WE1113                | WE1113                                  | Protector        | 2    |
| 82     | UW1151                | UW1153                                  | Spacer           | 2    |
| 83     | WD1141                | WD1141                                  | Escutcheon,      | 3    |
| 84     | WJ1165-1              | WJ1165-1                                | Knob             | 6    |
| 85     | WJ1166~1              | WJ1166-1                                | Knob             | 1    |
| 86     | WJ1165-2              | WJ1165-2                                | Knob             | 1    |
| 87     | WG1020                | ₩G1020                                  | Acryl, Pilot     | 1    |
| 88     | WD1140                | WD1140                                  | Escutcheon       | 1    |
| 89     | WD1142                | WD1142                                  | Escutcheon       | 3    |
| 90     | WE1112                | WE1112                                  | Protector        | 3    |
| 91     | WQ5005                | WQ5005                                  | Fiber            | 1    |
| 92     | Non Use               | Non Use                                 |                  |      |
| 9.3    | WH1132                | WH1132                                  | Knob             | 3    |
| 94     | WK1134                | WK1134                                  | Knob             | 3    |
| 95     | WJ1164                | WJ1164                                  | Knob             | 3    |
| 96     | WH1133                | WII1133                                 | Knob             | 3    |
| 97     | WK1135                | WK1135                                  | Knob             | í    |
| 98     | WJ1163                | WJ1163                                  | Knob             | î    |
| 99     | WA1242-2              | WA1242-1                                | Panel, Front     | 1    |
| 100    | UW1156                | UW1156                                  | Spacer           | 2    |
| 101    | WN1026                | WN1026                                  |                  | 2    |
|        |                       |   | Foot Felt. Foot  | 4    |
| 102    | WN1025                | WN1025                                  |                  |      |
| 103    | YAA40A25              | YAA40A25                                | Screw. M4x25     | 2    |
| 104    | YAA40A14              | YAA40A14                                | Screw, M4x14     | 2    |
| 105    | YCB30A08              | YCB30A08                                | Screw, M3x8      | 2    |
| 106    | YAA40A08              | YAA40A08                                | Screw, M4x8      | 6    |
| 107    | UE1115                | UE1115                                  | Plate, Bottom    | 1    |

# Packing Material Parts List



| Symbol No.                                    | Stock No.<br>L-510  | Stock No.<br>L-530  | Description   |
|---|---|---|---|
| 201<br>202<br>203<br>204<br>205<br>206<br>207 | WZ1101<br>XC1018A<br>XB1058<br>XD1049<br>XA1310<br>XH1061<br>XG1068<br>XG1069<br>XG1070<br>XC1031<br>ME0247<br>MA0150 | WZ1101<br>XC1018A<br>XB1058<br>XD1049<br>XA1311<br>XH1061<br>XG1068<br>XG1069<br>XG1070<br>XC1031<br>ME0247<br>MA0152 | Paper, Protector Sack, Poly Pad, Tray Pad Carton, Pkg. Outer Carton Label, Voltage (120V) Label, Voltage (220V) Label, Voltage (240V) Sakc, Poly Owner's Manual (EX) Owner's Manual (J) |

### PB1392-1A Parts List



| Symbol No. | Stock<br>No. | Description              |
|------------|--------------|--------------------------|
| (Slide Swi | tch)         |                          |
| SW101      | SS0144       | SSR26601D (Phono MM, MC) |
| (IC)       |              |                          |
| Q113a,b    | TC0197       | TLO71 CP                 |
| (Transisto | r,FET)       |                          |
| Q101a,b    | TR0091       | 2SA836                   |
| Q102a,b    | TR0091       | 2SA836                   |
| Q103a,b    | TR0323       | 2SC1845                  |
| Q104a,b    | TR0323       | 2SC1845                  |
| Q105a,b    | TF0028       | 2SK170-BL pair (L510)    |
|            | TF0018       | 2SK147-BL pair (L530)    |
| Q106a,b    | TF0028       | 2SK170-BL pair (L510)    |
|            | TF0018       | 2SK147-BL pair (L530)    |
| Q107а,Ъ    | TR0264       | 2SC2235                  |
| Q108a,b    | TR0351       | 2SC2320                  |
| Q109a,b    | TR0351       | 2SC2320                  |
| Q110a,b    | TR0351       | 2SC2320                  |
| Q111a,b    | TR0091       | 2SA836                   |
| Q112a,b    | TR0332       | 2SA857-V                 |
| Q113a,b    | TR0351       | 2SC2320                  |
| Q114a,b    | TR0331       | 2SC1438-V                |
| Q115a,Ъ    | TR0331       | 2SC1438-V                |
| Q116a,b    | TR0159       | 2SD415                   |
| Q117a,b    | TR0158       | 2SB549                   |
| Q119       | TRO314       | 2SA999                   |
| Q1 20      | TR0351       | 2SC2320                  |
| Q121       | TR0177       | 2SD525                   |

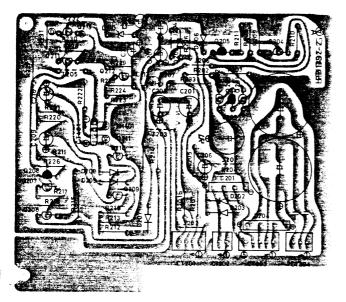
| Symbol No.         Stock No.         Description           Q122         TR0351         2SC2320           Q124         TF0033         2SK30A-TM           Q125         TR0314         2SA999           Q126         TR0314         2SA999           Q127         TR0264         2SC2235           Q128         TR0351         2SC2320           Q129         TR0314         2SA999           Q130         TR0176         2SB595           Q131         TR0314         2SA999           Q132         TR0314         2SA999           Q133         TF0033         2SK30A-TM           Q134         TR0351         2SC2320           Q135         TR0351         2SC2320           Q136         TR0263         2SA965           (Diode, LED)         TD0224         SEL1110S red           D101a,b         TD0224         SEL1110S red           D103a,b         TD0227         1SS41           D104a,b         TD0018         1K188FM-1           D106a,b         TD0227T         1SS41           D107a,b         TD0227T         1SS41           D108a,b         TD0227T         1SS41 |              | та      |              |
|--|--------------|---------|--------------|
| Q122   | Symbol No.   |         | Description  |
| Q123   | 0122         |         | 2SC2320      |
| Q124 TF0033 2SK30A-TM Q125 TR0314 2SA999 Q126 TR0314 2SA999 Q127 TR0264 2SC2235 Q128 TR0351 2SC2320 Q129 TR0314 2SA999 Q130 TR0176 2SB595 Q131 TR0314 2SA999 Q132 TR0314 2SA999 Q132 TR0314 2SA999 Q133 TF0033 2SK30A-TM Q134 TR0351 2SC2320 Q135 TR0351 2SC2320 Q135 TR0351 2SC2320 Q136 TR0263 2SA965  (Diode, LED) D101a,b TD0224 SEL1110S red D102a,b TD0224 SEL1110S red D103a,b TD0227T 1SS41 D104a,b TD0018 1K188FM-1 D105a,b TD0227T 1SS41 D106a,b TD0227T 1SS41 D106a,b TD0227T 1SS41 D107a,b TD0227T 1SS41   | 1 -          | 1       |              |
| Q125 TR0314 2SA999 Q126 TR0314 2SA999 Q127 TR0264 2SC2235 Q128 TR0351 2SC2320 Q129 TR0314 2SA999 Q130 TR0176 2SB595 Q131 TR0314 2SA999 Q132 TR0314 2SA999 Q132 TR0314 2SA999 Q133 TF0033 2SK30A-TM Q134 TR0351 2SC2320 Q135 TR0351 2SC2320 Q136 TR0263 2SA965  (Diode, LED)  D101a,b TD0224 SEL1110S red D102a,b TD0224 SEL1110S red D103a,b TD0227T 1SS41 D104a,b TD0018 1K188FM-1 D105a,b TD0227T 1SS41 D106a,b TD0227T 1SS41 D107a,b TD0227T 1SS41  | Q124         | TF0033  |              |
| Q127 TR0264 2SC2235 Q128 TR0351 2SC2320 Q129 TR0314 2SA999 Q130 TR0176 2SB595 Q131 TR0314 2SA999 Q132 TR0314 2SA999 Q133 TF0033 2SK30A-TM Q134 TR0351 2SC2320 Q135 TR0351 2SC2320 Q136 TR0263 2SA965  (Diode, LED) D101a,b TD0224 SEL1110S red D102a,b TD0224 SEL1110S red D103a,b TD0227T 1SS41 D104a,b TD0018 1K188FM-1 D105a,b TD0227T 1SS41 D106a,b TD0227T 1SS41 D106a,b TD0227T 1SS41 D107a,b TD0227T 1SS41  | Q125         | TR0314  | ì            |
| Q128 TR0351 2SC2320 Q129 TR0314 2SA999 Q130 TR0176 2SB595 Q131 TR0314 2SA999 Q132 TR0314 2SA999 Q133 TF0033 2SK30A-TM Q134 TR0351 2SC2320 Q135 TR0351 2SC2320 Q136 TR0263 2SA965  (Diode, LED)  D101a,b TD0224 SEL1110S red D102a,b TD0224 SEL1110S red D103a,b TD0227T 1SS41 D104a,b TD0018 1K188FM-1 D105a,b TD0227T 1SS41 D106a,b TD0227T 1SS41 D106a,b TD0227T 1SS41 D107a,b TD0227T 1SS41   | Q126         | TR0314  | 2SA999       |
| Q129 TR0314 2SA999 Q130 TR0176 2SB595 Q131 TR0314 2SA999 Q132 TR0314 2SA999 Q133 TF0033 2SK30A-TM Q134 TR0351 2SC2320 Q135 TR0351 2SC2320 Q136 TR0263 2SA965  (Diode,LED)  D101a,b TD0224 SEL1110S red D102a,b TD0224 SEL1110S red D103a,b TD0227T 1SS41 D104a,b TD0018 1K188FM-1 D105a,b TD0227T 1SS41 D106a,b TD0227T 1SS41 D106a,b TD0227T 1SS41 D107a,b TD0227T 1SS41  | Q127         | TR0264  | 2SC2235      |
| Q130 TR0176 2SB595 Q131 TR0314 2SA999 Q132 TR0314 2SA999 Q133 TF0033 2SK30A-TM Q134 TR0351 2SC2320 Q135 TR0351 2SC2320 Q136 TR0263 2SA965  (Diode, LED) D101a,b TD0224 SEL1110S red D102a,b TD0224 SEL1110S red D103a,b TD0227T 1SS41 D104a,b TD0018 1K188FM-1 D105a,b TD0227T 1SS41 D106a,b TD0227T 1SS41 D106a,b TD0227T 1SS41 D107a,b TD0227T 1SS41   | Q128         | TR0351  | 2SC2320      |
| Q131 TR0314 2SA999 Q132 TR0314 2SA999 Q133 TF0033 2SK30A-TM Q134 TR0351 2SC2320 Q135 TR0351 2SC2320 Q136 TR0263 2SA965  (Diode, LED)  D101a,b TD0224 SEL1110S red D102a,b TD0224 SEL1110S red D103a,b TD0227T 1SS41 D104a,b TD0018 1K188FM-1 D105a,b TD0227T 1SS41 D106a,b TD0227T 1SS41 D106a,b TD0227T 1SS41 D107a,b TD0227T 1SS41   | Q129         | TR0314  | 2SA999       |
| Q132 TR0314 ZSA999 Q133 TF0033 ZSK30A-TM Q134 TR0351 ZSC2320 Q135 TR0351 ZSC2320 Q136 TR0263 ZSA965  (Diode,LED)  D101a,b TD0224 SEL1110S red D102a,b TD0224 SEL1110S red D103a,b TD0227T ISS41 D104a,b TD0018 IK188FM-1 D105a,b TD0227T ISS41 D106a,b TD0227T ISS41 D106a,b TD0227T ISS41 D107a,b TD0227T ISS41   | Q130         | TR0176  | 2SB595       |
| Q133 TF0033 2SK30A-TM Q134 TR0351 2SC2320 Q135 TR0351 2SC2320 Q136 TR0263 2SA965  (Diode,LED)  D101a,b TD0224 SEL1110S red D102a,b TD0224 SEL1110S red D103a,b TD0227T 1SS41 D104a,b TD0018 1K188FM-1 D105a,b TD0227T 1SS41 D106a,b TD0227T 1SS41 D107a,b TD0227T 1SS41  | Q131         | TR0314  | 2SA999       |
| Q134 TR0351 2SC2320 Q135 TR0351 2SC2320 Q136 TR0263 2SA965  (Diode,LED)  D101a,b TD0224 SEL1110S red D102a,b TD0224 SEL1110S red D103a,b TD0227T 1SS41 D104a,b TD0018 1K188FM-1 D105a,b TD0227T 1SS41 D106a,b TD0227T 1SS41 D107a,b TD0227T 1SS41  | Q132         | TR0314  | 2SA999       |
| Q135 TR0351 2SC2320 Q136 TR0263 2SA965  (Diode,LED)  D101a,b TD0224 SEL1110S red D102a,b TD0224 SEL1110S red D103a,b TD0227T 1SS41 D104a,b TD0018 1K188FM-1 D105a,b TD0227T 1SS41 D106a,b TD0227T 1SS41 D107a,b TD0227T 1SS41 D107a,b TD0227T 1SS41  | Q133         | TF0033  | 2SK30A-TM    |
| Q136 TR0263 2SA965 (Diode,LED)  D101a,b TD0224 SEL1110S red D102a,b TD0224 SEL1110S red D103a,b TD0227T 1SS41 D104a,b TD0018 1K188FM-1 D105a,b TD0227T 1SS41 D106a,b TD0227T 1SS41 D107a,b TD0227T 1SS41 D107a,b TD0227T 1SS41   | Q134         | TR0351  | 2SC2320      |
| (Diode, LED)  D101a,b TD0224 SEL1110S red D102a,b TD0224 SEL1110S red D103a,b TD0227T 1SS41 D104a,b TD0018 1K188FM-1 D105a,b TD0227T 1SS41 D106a,b TD0227T 1SS41 D107a,b TD0227T 1SS41   | Q135         | TR0351  | 2SC2320      |
| D101a,b TD0224 SEL1110S red D102a,b TD0224 SEL1110S red D103a,b TD0227T 1SS41 D104a,b TD0018 1K188FM-1 D105a,b TD0227T 1SS41 D106a,b TD0227T 1SS41 D107a,b TD0227T 1SS41   | Q136         | TR0263  | 2SA965       |
| D102a,b TD0224 SEL1110S red D103a,b TD0227T 1SS41 D104a,b TD0018 1K188FM-1 D105a,b TD0227T 1SS41 D106a,b TD0227T 1SS41 D107a,b TD0227T 1SS41   | (Diode,LED   | )       |              |
| D103a,b TD0227T 1SS41 D104a,b TD0018 1K188FM-1 D105a,b TD0227T 1SS41 D106a,b TD0227T 1SS41 D107a,b TD0227T 1SS41   | D101a,b      | TD0224  | SEL1110S red |
| D104a,b TD0018 1K188FM-1 D105a,b TD0227T 1SS41 D106a,b TD0227T 1SS41 D107a,b TD0227T 1SS41   | D102a,b      | TD0224  | SEL1110S red |
| D105a,b TD0227T 1SS41<br>D106a,b TD0227T 1SS41<br>D107a,b TD0227T 1SS41  | D103a,b      | TD0227T | 1SS41        |
| D106a,b TD0227T 1SS41<br>D107a,b TD0227T 1SS41   | D104a,b      | TD0018  | 1K188FM-1    |
| D107a,b TD0227T 1SS41  |              | TD0227T | 1SS41        |
|  |              | TD0227T | 1SS41        |
| D108a,b   TD0227T   1SS41  |              |         | 1SS41        |
| , ===  | •            | 1       |              |
| D109a,b TD0227T 1SS41  | •            |         |              |
| D110 TD0227T 1SS41   | <del>-</del> |         | _            |
| D111 TD0043T WZ-130  | D111         | TD0043T | WZ-130       |

### PB1392-1A Parts List

|            | Stock     | Τ           |         |           |    |
|------------|-----------|-------------|---------|-----------|----|
| Symbol No. | No.       | Descript    | ion     |           |    |
| D112       | TD0227T   | 18841       |         |           |    |
| D113       | TD0043T   | WZ-130      |         |           |    |
| (Semi-Fixe | d Resisto | r)          |         |           |    |
| VR101a,b   | RT0016    | SR29R 10    | KBx2    |           |    |
| VR102      | RT0124    | SR29R 2.    | 2KB     |           |    |
| VR103      | RT0124    | SR29R 2.    | 2KB     |           |    |
| (Capacitor |           |             |         |           |    |
| C101a,b    | CQ1403    | 100pF       |         |           | St |
| C102a,b    | CQ1430    | 2700pF      |         |           | St |
| C103a,b    | CM0136    | 2pF         |         |           | Mi |
| C105a,b    | CQ1403    | 100pF       |         |           | St |
| C106       | CQ3272    | 10000pF     |         |           | St |
| C107       | CQ3272    | 10000pF     |         |           | St |
| C108a,b    | CE1975B   | 2.2uF       | 50V     | BP        | E1 |
| С109а,Ъ    | CQ3272    | 1000pF      |         |           | St |
| C110a,b    | CQ1430    | 2700pF      |         |           | St |
| C111       | CM0050    | 10P         |         |           | Mi |
| C112       | CQ1436    | 4700pF      |         |           | St |
| C113       | CK0155T   | 0.01uF      |         |           | Ce |
| C114       | CE1981    | 47uF        | 50V     |           | E1 |
| C115       | CE1722    | 220uF       | 16V     |           | E1 |
| C116       | CE1722    | 220uF       | 16V     |           | El |
| C117       | CM0050    | 10pF        |         |           | Mi |
| C118       | CQ1436    | 4700pF      |         |           | St |
| C119       | CK0155T   | 0.01uF      |         |           | Ce |
| C120       | CE1981    | 47uF        | 50V     |           | E1 |
| C121       | CE1722    | 220uF       | 16V     |           | El |
| C122       | CE1722    | 220uF       | 16V     |           | E1 |
| C123       | CE1757T   | 47uF        | 50V     |           | E1 |
| C124       | CE1757T   | 47uF        | 50V     |           | E1 |
| C125a,b    | CQ1421    | 820pF       |         |           | St |
| C126a,b    | CQ2013    | 0.22uF      | 120V    |           | Fi |
| C127a,b    | CQ5080    | 1500pF      |         |           | St |
| C130       | CK0146    | 0.04uF      |         |           | Ce |
| (Resistor) |           | 1 2 2 2 2 2 |         |           |    |
| R101a,b    | RD0442    | 100K        | 1/3W    |           | Rd |
| R102a,b    | RD0483    | 39          | 1/3W    |           | Rd |
| R103a,b    | RD0442    | 100K        | 1/3W    |           | Rd |
| R104a,b    | RD0481    | 56          | 1/3W    |           | Rd |
| R105a,b    | RD0474    | 220         | 1/3W    |           | Rd |
| R106a,b    | RB0360    | 330         |         |           | Rd |
| R107a,b    | RB0348T   | 100         |         |           | Rd |
| R108a,b    | RB0348T   | 100         |         |           | Rd |
| R109a,b    | RBO404T   | 22K         |         |           | Rd |
| R110a,b    | RB0324T   | 10          |         | /T 53 0 \ | Rd |
| Rllla,b    | RB0348T   | 100         |         | (L510)    | Rd |
| R112a,b    | RB0348T   | 100         |         | (L510)    | Rd |
| R113a,b    | RB0392T   | 6.8K        |         |           | Rd |
| R114a,b    | RB0352    | 150         | 1 /011  |           | Rd |
| R115a,b    | RD2582    | 1K          | 1/2W    |           | Rd |
| R116a,b    | RB0410T   | 39K         | 1 / 277 |           | Rd |
| R118a,b    | RS1459    | 180         | 1/3W    |           | Rf |
| R119a,b    | RB0370T   | 820         |         |           | Rd |
|            |           |             |         |           |    |

|            | 1       |          |         |    |
|------------|---------|----------|---------|----|
| Symbol No. | Stock   | Descript | ion     |    |
| D120 1     | No.     |          |         |    |
| R120a,b    | RB0392T | 6.8K     |         | Rd |
| R121a,b    | RB0340T | 47       |         | Rd |
| R122a,b    | RB0376T | 1.5T     |         | Rd |
| R123a,b    | RB0392T | 6.8K     |         | Rd |
| R124a,b    | RB0376T | 1.5K     |         | Rd |
| R125a,b    |         | Jumper   |         |    |
| R126a,b    |         | Jumper   |         |    |
| R127a,b    | RB0340T | 47       |         | Rd |
| R128a,b    | RB0412T | 47K      |         | Rd |
| R129a,b    | RB0394T | 8.2K     |         | Rd |
| R130a,b    | RD2612  | 18K      | 1/2W    | Rd |
| R131a,b    | RB0352T | 150      |         | Rd |
| R132a,b    | RB0392T | 6.8K     |         | Rd |
| R133a,b    | RB0394T | 8.2K     |         | Rd |
| R134a,b    | RB0346T | 82       |         | Rd |
| R135a,b    | RS2502L | 15       | 1/2W    | Rd |
| R136a,b    | RS2502L | 15       | 1/2W    | Rd |
| R137a,b    | RD2666  | 3.3M     | 1/2W    | Rd |
| R138a,b    | RS2508L | 47       | 1/2W    | Rd |
| R139a,b    | RB0452T | 2.2M     |         | Rd |
| R140a,b    | RB0452T | 2.2M     |         | Rd |
| R14la,b    | RB0448T | 1.5M     |         | Rd |
| R142a,b    | RB0332T | 22       |         | Rd |
| R143a,b    | RD0436  | 330K     | 1/3W    | Rd |
| R144a,b    | RD0449  | 27K      | 1/3W    | Rd |
| R145a,b    | RD0489  | 10       | 1/3W    | Rd |
| R146a,b    | RD0474  | 220      | 1/3W    | Rd |
| R151       | RS1847  | 82       |         | Rf |
| R152       | RS1847  | 82       |         | Rf |
| R153       | RB0432T | 330K     |         | Rd |
| R154       | RS1873  | 820      |         | Rf |
| R155       | RS1851  | 120      |         | Rf |
| R156       | RS2501L | 10       | 1/2W    | Rf |
| R157       | RB0402T | 18K      |         | Rd |
| R158       | RB0390T | 5.6K     |         | Rd |
| R159       | RB0380T | 2.2K     |         | Rd |
| R160       | RB0380T | 2.2K     |         | Rd |
| R161       | RB0396T | 10K      |         | Rd |
| R162       | RB0389T | 5.1K     |         | Rd |
| R163       | RD2592  | 2.7K     | 1/2W    | Rd |
| R164       | RS1847  | 82       |         | Rf |
| R165       | RS1847  | 82       |         | Rf |
| R166       | RB0432T | 330K     |         | Rd |
| R167       | RS1873  | 820      |         | Rf |
| R168       | RS1851  | 120      |         | Rf |
| R169       | RS2501L | 10       | 1/2W    | Rf |
| R170       | RB0402T | 18K      | ·       | Rd |
| R171       | RB0390T | 5.6K     |         | Rd |
| R172       | RB0380T | 2.2K     |         | Rd |
| R173       | RB0380T | 2.2K     |         | Rd |
| R174       | RB0396T | 10K      |         | Rd |
| R175       | RB0389T | 5.1K     |         | Rd |
| R176       | RD2592  | 2.7K     | 1/4W    | Rd |
| - · -      | RB0352  | 150      | • • • • | Rd |
|            |         |          |         |    |

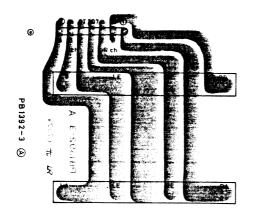
### PB1392-2A Parts List



| Symbol No. | Stock<br>No.     | Description |  |
|------------|------------------|-------------|--|
| (Transisto | r,FET)           |             |  |
| Q201       | TR0351           | 2SC2320     |  |
| Q202       | TR0351           | 2SC2320     |  |
| Q203       | TR0314           | 2SA999      |  |
| Q204       | TR0351           | 2SC2320     |  |
| Q205       | TR0008           | 2SA562      |  |
| Q206       | TR0351           | 2SC2320     |  |
| Q207       | TR0351           | 2SC2320     |  |
| Q208       | TR0314           | 2SA999      |  |
| Q209       | TR0351           | 2SC2320     |  |
| Q210       | TR0351           | 2SC2320     |  |
| Q211       | TR0351           | 2SC2320     |  |
| Q213       | TF0030           | 2SK117Y     |  |
| (Diode,LED | )                |             |  |
| D201       | TD0137           | S1VB10      |  |
| D202       | 02 TD0236 S5500G |             |  |
| D203       | TD0236           | S5500G      |  |
| D204       | TD0145           | SVB10-200   |  |
| D205       | TD0227T          | 1SS41       |  |
| D206       | TD0236           | S5500G      |  |
| D207       | TD0227T          | 1SS41       |  |
| D208       | TD0227T          | 1SS41       |  |
| D209       | TD0227T          | 1SS41       |  |
| D210       | TD0023T          | WZ-071      |  |
| D211       | TD0232           | EAA5534S    |  |

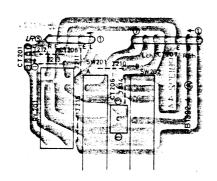
|              | 10. 1        | 1       |      | ·  |
|--------------|--------------|---------|------|----|
| Symbol No.   | Stock<br>No. | Descrip | tion |    |
| (Resistor)   |              |         |      |    |
| R201a,b      | RB0400T      | 15K     |      | Rd |
| R202         | RB0372T      | 1K      |      | Rd |
| R203         | RB0382T      | 2.7K    |      | Rd |
| R204         | RB0396T      | 10K     |      | Rd |
| R205         | RB0396T      | 10K     |      | Rd |
| R206         | RB0420T      | 100K    |      | Rd |
| R207         | RB0412T      | 47K     |      | Rd |
| R208         | RB0396T      | 10K     |      | Rd |
| R209         | RB0388T      | 4.7K    |      | Rd |
| R210         | RB0392T      | 6.8K    |      | Rd |
| R211         | RB0372T      | 1K      |      | Rd |
| R212         | RB0396T      | 10K     |      | Rd |
| R213         | RB0396T      | 10K     |      | Rd |
| R214         | RB0396T      | 10K     |      | Rd |
| R215         | RB0400       | 15K     |      |    |
| R216         | RB0396T      | 10K     |      | Rd |
| R217         | RB0396T      | 10K     |      | Rd |
| R218         | RB0398T      | 4.7K    |      | Rd |
| R219         | RB0366T      | 560     |      | Rd |
| R220         | RB0412T      | 47K     |      | Rd |
| R221         | RB04121      | 47K     |      | Rd |
| R222         | 1            |         |      | Rd |
| R226         | RB0356T      | 220     |      | Rd |
| R227         | RB0396T      | 10K     |      | Rd |
| R228         | RB0396T      | 10K     |      | Rd |
| R229         | RB0388T      | 4.7K    |      | Rd |
| R230         | RB0388T      | 4.7K    |      | Rd |
| R230         | RB0424T      | 150K    |      | Rd |
| 1            | RBO452T      | 2.2M    |      | Rd |
| R232         | RB0452T      | 2.2M    | 1 /0 | Rd |
| R233         | RS1453       | 100     | 1/3W | Rf |
|              | RB0460       | 4.7M    |      | Rd |
|              | RB0428       | 220K    |      | Rd |
| (C           | RB0398       | 120K    |      | Rd |
| (Capacitor   |              | 220 5   | 1711 |    |
| C201<br>C202 | CE1722       | 220uF   | 16V  | E1 |
|              | CE1722       | 220uF   | 16V  | E1 |
| C203         | CE1909       | 1000uF  | 50V  | E1 |
| C204         | CE1909       | 1000uF  | 50V  | El |
| C205         | CE1820       | 3300uF  | 16V  | E1 |
| C206         | CE1750T      | luF     | 50V  | E1 |
| C209         | CE1717T      | 10uF    | 16V  | El |
| C210         | CE1717T      | 10uF    | 16V  | El |
| C211         | CE1711T      | 100uF   | 10V  | El |
| C212         | CE1717T      | 10uF    | 16V  | E1 |
| C213         | CE1717T      | 10uF    | 16V  | E1 |
| C217         | CE1721T      | 100uF   | 16V  | E1 |
| C218         | CE1752T      | 3.3uF   | 50V  | E1 |

### PB1392-3A Parts List



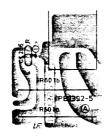
| Symbol No.  | Stock<br>No. | Description |
|-------------|--------------|-------------|
| (Speaker Te | erminal)     |             |
|             | AT0110       | T-5631      |

### PB1392-4A Parts List



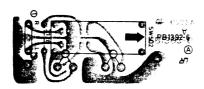
| Symbol No.    | Stock<br>No. | Description    |
|---------------|--------------|----------------|
| (Push Switch) |              |                |
| SW201-202     | SP0262       | SUF23(speaker) |
| (Relay)       |              |                |
| RY201 AY1019  |              | VB12MC         |

#### PB1392-5A Parts List



| Symbol No. | Stock<br>No. | Descri | ption    |    |
|------------|--------------|--------|----------|----|
| (Head Phon | e Jack)      | -      |          |    |
|            | AJ0022       | HLJ030 | 5-01-020 |    |
| (Resistor) |              |        |          |    |
| R501a,b    | RS3454       | 470    | 3W       | Rf |

### PB1392-6A Parts List



| Symbol No.     | Stock<br>No. | Description          |  |  |
|----------------|--------------|----------------------|--|--|
| (4P Pin Jac    | ck)          |                      |  |  |
|                | AT0151       | T5754AA              |  |  |
| (Slide Switch) |              |                      |  |  |
| SW502          | SS0143       | SSR22401D (function) |  |  |

### PB1413 Parts List



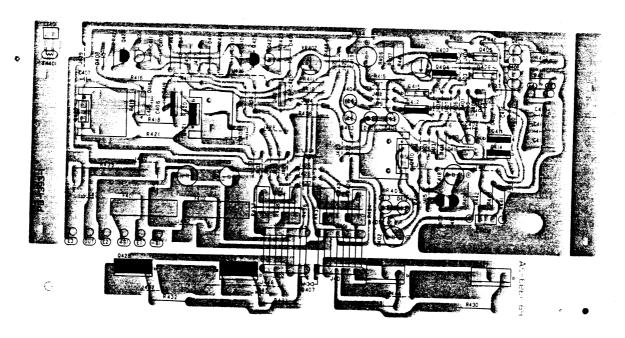
| Symbol No.  | Stock<br>No. | Description          |      |
|-------------|--------------|----------------------|------|
| (4P Pin Jac | ck)          | L.                   |      |
|             | AT0151       | T5754AA              |      |
| (Slide Swit | ch)          | 4                    |      |
| SW502       | SS0143       | SSR22401D (function) |      |
| (Choke Coil | .)           | (runction)           |      |
|             | LA1143       | 47uH                 |      |
| (Capacitor) |              |                      |      |
|             | CQ0172       | 330pF                | C+   |
| (Resistor)  | ,            |                      | St   |
|             | RB0380       | 2.2K                 | Rd   |
|             |              |                      | 1111 |

### PB1392-7A Parts List



| Symbol No | Stock<br>No. | Description            |
|-----------|--------------|------------------------|
| (LED)     |              |                        |
| D211      | TD0232       | EAA5534S org.(warm-up) |

### PB1393-1A,2A Parts List



| Symbol No.  | Stock  | D              |
|-------------|--------|----------------|
|             | No.    | Description    |
| (Fuse Holde | er)    |                |
|             | AH0028 | 23165102-C (A) |
| (Fuse)      |        | (A)            |
| F401a,b     | BF0212 | T3.15A (A)     |
| F402a,b     | BF0212 | T3.15A (A)     |
| (Varistor)  |        | (H)            |
| D407        | TV0026 | STV-2H         |
| (Choke Coil | )      | OTV ZII        |
| L401a, b    | LA1020 | LUX 1020       |
| (Relay)     |        | 102 U          |
|             | AY1028 | T110.10MI      |

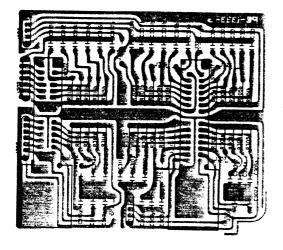
| Symbol No.  | Stock<br>No. | Description |
|-------------|--------------|-------------|
| (Semi-Fixed | Resisto      | r)          |
| VR401a,b    | RT0015       | SR29R 1KB   |
| VR402a,b    | RT0015       | SR29R 1KB   |
| (Transistor | FET)         |             |
| Q401a,b     | TR0320       | 2SA992-E    |
| Q402a,b     | TR0320       | 2SA992-E    |
| Q403a,b     | TR0342       | 2SA899-BV   |
|             | TR0342       | 2SA899-BV   |
| Q405a,b     | TR0318       | 2SC1904-BV  |
|             |              | -           |
|             |              |             |

## PB1393-1A,2A Parts List

| Symbol No        | No.               | Descri              | tion     |       |     |
|------------------|-------------------|---------------------|----------|-------|-----|
| Q406a,b          | TR0318            | 2SC1904             |          |       |     |
| Q407a,b          | TF0028            | 2SK170-             |          | ir    |     |
| Q408a,b          | TF0028            | 2SK170-             | BL Pa    | ir    |     |
| Q410a,b          | TR0190            | 2SC1624             | <b>,</b> |       |     |
| Q41la,b          | TR0342            | 2SA899-             | ·BV      |       |     |
| Q412a,b          | TR0342            | 2SA899-             |          |       |     |
| Q413a,b          | TR0318            | 2SC1904             |          |       |     |
| Q414a,b          | TR0342            | 2SA899-             |          |       |     |
| Q415a,b          | TR0318            | 2SC1904             |          |       |     |
| Q416a,b          | TR0323            | 2SC1845             |          |       |     |
| Q417a,b          | TR0323            | 2SC1845             |          |       |     |
| Q418a,b          | TR0318            | 2SC1904             |          |       |     |
| Q419a,b          | TR0342            |                     |          |       |     |
| Q420a,b          | 1                 | 2SA899-             | BV       |       |     |
| Q420a,b          | TR0242            | 2SC2336             |          |       |     |
|                  | TR0241            | 2SA1006             |          |       |     |
| Q422a,b          | TR0320            | 2SA992-             | E        |       |     |
| Q423a,b          | TR0323            | 2SC1845             |          |       |     |
| Q424a,b          | TR0323            | 2SC1845             |          |       |     |
| Q425a,b          | TR0320            | 2SA992E             |          |       |     |
| Q426a,b          | TR0272            | 2SC2525             |          | (L-51 | .0) |
|                  | TR0375            | 2SC2526             |          | (L-53 |     |
| Q427a,b          | TR0272            | 2SC2525             |          | (L-51 |     |
|                  | TR0375            | 2SC2526             |          | (L-53 |     |
| Q428a,b          | TR0271            | 2SA1075             |          | (L-51 |     |
| Ţu,              | TR0376            | 2SA1075             | ,        |       |     |
| Q429a,b          | TR0271            | 1                   |          | (L-53 |     |
| Q423a,0          | l .               | 2SA1075             |          | (L-51 |     |
| (Dioda I Er      | TR0376            | 2SA1076             |          | (L-53 | U)  |
| (Diode, LED      |                   | 1                   |          |       |     |
| D401a,b          | TD0227T           | 18841               |          |       |     |
| D402a,b          | TD0227T           | 18841               |          |       |     |
| D403a,b          | TD0224            | SEL11109            |          |       |     |
| D404a,b          | TD0224            | SEL1110S            | red      |       |     |
| D405a,b          | TD0224            | SEL1110S            |          |       |     |
| D406a,b          | TD0224            | SEL1110S            |          |       |     |
| D408a,b          | TD0227T           | 18841               |          |       |     |
| D409a,b          | TD0227T           | 18841               |          |       |     |
| D410a,b          | TD0227T           | 18841               |          |       |     |
| D411a,b          | TD0227T           | 15541               |          |       |     |
| 0412a,b          | TD02271           | 1                   |          |       |     |
| 0413a,b          | TD0224            | SEL1110S            |          |       |     |
| (Capacitor       |                   | SEL1110S            | red      |       |     |
| C401a,b          |                   | 22-5                |          |       |     |
|                  | CQ0275            | 33pF                |          |       | St  |
| C402a,b          | CE1712T           | 220uF               | 10V      |       | E1  |
| 2403a,b          | CQ1401            | 1000pF              |          |       | St  |
| 2404a,b          | CQ1432            | 3300 <sub>P</sub> F |          |       | St  |
| 405a,b           | CM0177            | 22pF                |          |       | Mi  |
| 406a,b           | CM0177            | 22pF                |          |       | Mi  |
| 407a,b           | CM0178            | 47pF                |          |       | Mi  |
| 408a,b           | CM0178            | 47pF                |          |       | Mi  |
| 411a,b           | CQ0026T           | 0.001uF             |          |       | i   |
| 412a,b           | CQ0026T           | 0.001uF             |          |       | My  |
| 413a,b           | CQ3063            | 0.001uF             |          |       | Му  |
| 414a,b           | CE1780            |                     | 1.00**   |       | Pp  |
| 415a,b           |                   | 47uF                | 100V     |       | E1  |
| 116 1            | CE1780            | 47uF                | 100V     |       | E1  |
|                  | CM0050            | 10pF                |          |       | Mi  |
| 416a,b           | 3                 |                     |          |       |     |
| 416a,b<br>417a,b | CE1977B<br>CQ2020 | 4.7uF<br>luF        | 50V      | BP    | E1  |

| Symbol No C418a,b C418a,b C419a,b C419a,b C420a,b (Resistor) R401a,b | No.<br>CQ2006<br>CE1977<br>CE1712<br>CQ5080<br>CE1712<br>CM0058 | B<br>T<br>T | 0.47u<br>4.7uF<br>220uF<br>1500pl<br>220uF | 50V<br>10V | (L53     | F<br>30) E |
|--|---|-------------|--|------------|----------|------------|
| C418a,b<br>C419a,b<br>C419a,b<br>C420a,b<br>(Resistor)               | CE1977<br>CE1712<br>CQ5080<br>CE1712<br>CM0058                  | B<br>T<br>T | 4.7uF<br>220uF<br>1500pl                   | 50V<br>10V | (L53     |            |
| C419a,b<br>C419a,b<br>C420a,b<br>(Resistor)                          | CE1712<br>CQ5080<br>CE1712<br>CM0058                            | Т           | 220uF<br>1500pl                            | 10V        | (        |            |
| C419a,b<br>C419a,b<br>C420a,b<br>(Resistor)                          | CQ5080<br>CE1712<br>CM0058                                      | Т           | 1500pl                                     |            |          | , -        |
| C419a,b<br>C420a,b<br>(Resistor)                                     | CE1712<br>CM0058  | Т           | 1500pl                                     |            |          | E          |
| C420a,b<br>(Resistor)  | CM0058  | - 1         | 22011F                                     | 2          |          | S          |
| (Resistor)   | RB0364  |             | 22001                                      | 10V        |          | E          |
|  | RB0364  |             | 220pF                                      |            |          | М          |
| K4Ula.b  | 1   |             |  |            |          |            |
| 1 1  |   | 1           | 470  |            |          | Ro         |
| R402a,b  | RB0348  |             | 100  |            |          | Ro         |
| R404a,b  | RB0442'   | 1           | 820K                                       |            |          | Ro         |
| R405a,b  | RS1875  |             | 1K   |            |          | Ri         |
| R406a,b  | RB0422  | 1           | 120K                                       |            |          | Ro         |
| R407a,b  | RS1837<br>RS1837  | - 1         | 33   |            |          | Rf         |
| R408a,b  | RS1894  | ,           | 33   |            |          | Rf         |
| R409a,b  | RS1857  |             | 5.6K<br>220                                |            |          | Rf         |
| R410a,b  | RB03801   |             | 2.2K                                       |            |          | Rf         |
| R411a,b  | RB03661   | i           | 560  |            |          | Rd         |
| R413a,b  | RS1847  | - 1         | 32   |            |          | Rd         |
| R414a,b  | RS1847  |             | 32   |            |          | Rf         |
| R415a,b  | RS2728L   |             | 47K  | 1 W        |          | Rf         |
| R416a,b  | RS1849  | i           | 100  | 111        |          | Rf<br>Rf   |
| R417a,b  | RS1849  |             | 100  |            |          | Rf         |
| R418a,b  | RS2521L   |             | 60   | 1/2W       |          | Rf         |
| R419a,b  | RS1849  | 1           | .00  | _, _,,     |          | Rf         |
| R420a,b  | RS1849  |             | .00  |            |          | Rf         |
| R421   | RS2513L   | 1           | 20   | 1/2W       |          | Rf         |
| R422a,b  | RB0392T   | - 1         | .8K  |            |          | Rd         |
| R423a,b  | RB0392T   | 6           | .8K  |            |          | Rd         |
| 10/05  | RB0392T   |             | .8K  |            |          | Rd         |
| 12100  | RB0392T   | 1           | .8K  |            |          | Rd         |
|  | RS1853  | - 1         | 50   |            |          | Rf         |
| R427a,b  | RS1853  |             | 50   |            |          | Rf         |
|  | RS1853  | - 1         | 50   |            |          | Rf         |
|  | RS1853  |             | 50   |            |          | Rf         |
| 1-1  | RS2564L   |             | .7   | 1/2W       |          | Rf         |
| 1 1  | RS2564L<br>RS2564L  |             | .7   | 1/2W       |          | Rf         |
| 1-100  |   |             | . 7  | 1/2W       |          | Rf         |
| 7.01   | RS2564L<br>RG0075   |             | .7   | 1/2W       |          | Rf         |
| 1 1  | RG0075  | 1           | .22  | 5W         |          | Rc         |
|  | RG0075  | 1 -         | .22  | 5W         |          | Rc         |
| 77.07  | RG0075  | 1           | . 22<br>. 22                               | 5W         |          | Rc         |
| 1 2 4 2 2  | RS2696L   | 4.          |  | 5W         |          | Rc         |
| 1  | RS5013L   | 22          |  | 1W<br>3W   |          | Rf         |
| 1-11-  | B0452T  |             | 2M   | JW         |          | Rf<br>Pd   |
| F  | RB0448  | 1           | 5M   | (L530)     | <b>)</b> | Rd<br>Rd   |
| R441a,b R  | В0366Т  | 56          |  | (2000)     | r        | Rd         |
| D//O 1   | B0412T  | 47          |  |            |          | Rd         |
|  | D0446   | 47          |  | 1/3W       | (L530)   | Rd         |
| R443a,b R  | B0394T  | 1           | 2K   |            | ,,       | Rd         |
| 1  | D0455   | 8.          |  | 1/3W       | (L530)   | Rd         |
| D//-   | B0342T  | 56          |  |            |          | Rd         |
| R445a,b R  | S1849   | 10          | 0  |            |          | Rf         |
| D// -  | S1849   | 10          | 0  |            |          | Rf         |
| D//O :  -  | S1849   | 10          |  |            |          | Rf         |
| R448a,b R  | D2666   | 3.          | 3M   | 1/2W       | (L530)   | Rd         |

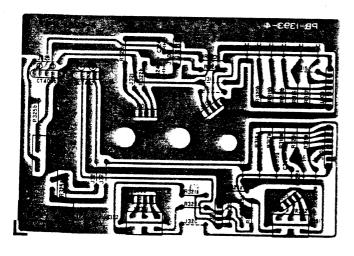
### PB-1393-3A Parts List



| ymbol No.   | Stock<br>No. | Description        |        |
|-------------|--------------|--------------------|--------|
| (Slide Rota | ary Switc    | h)                 |        |
| SW301       | SR0164       | SRZW46S (turn over | treble |
| SW302       | SR0164       | SRZW46S (trun over | hass)  |
| (Capacitor  | )            |                    | Da33)  |
| C301a,b     | CQ0014T      | 0.015uF            | My     |
| C302a,b     | CQ0016T      | 0.01uF             | My     |
| C303a,b     | CQ0019T      | 0.0047uF           | My     |
| C304a,b     | CQ0023T      | 0.0022uF           | My     |
| C305a,b     | CQ1421       | 820pF              | St     |

| Symbol No. | Stock<br>No. | Description |    |
|------------|--------------|-------------|----|
| C306a,b    | CQ0027T      | 0.0068uF    | My |
| C307a,b    | CQ0007T      | 0.068uF     | My |
| C308a,b    | CQ0009T      | 0.047uF     | My |
| C309a,b    | CQ0013T      | 0.022uF     | My |
| C310a,b    | CQ0015T      | 0.012uF     | My |
| C311a,b    | CQ0019T      | 0.0047uF    | My |
| С312а,Ъ    | CQ2252F      | 0.18uF      | My |
| C313a,b    | CQ0005T      | 0.luF       | My |
| C314a,b    | CQ0008T      | 0.056uF     | My |
| C315a,b    | CQ0012T      | 0.027uF     | Му |
| C316a,b    | CQ0017T      | 0.0082uF    | My |
| C317a,b    | CQ0014T      | 0.015uF     | My |
| (Resistor) | •            |             |    |
| R301a,b    | RB0452T      | 2.2M        | Rd |
| R302a,b    | RB0452T      | 2.2M        | Rd |
| R303a,b    | RB0452T      | 2.2M        | Rd |
| R304a,b    | RB0452T      | 2.2M        | Rd |
| R305a,b    | RB0452T      | 2.2M        | Rd |
| R306a,b    | RB0452T      | 2.2M        | Rd |
| R307a,b    | RB0452T      | 2.2M        | Rd |
| R308a,b    | RB0452T      | 2.2M        | Rd |
| R309a,b    | RB0452T      | 2.2M        | Rd |
| R310a,b    | RB0452T      | 2.2M        | Rd |
| R311a,b    | RB0452T      | 2.2M        | Rd |
| R312a,b    | RB0452T      | 2.2M        | Rd |
| R313a,b    | RB0452T      | 2.2M        | Rd |
| R314a,b    | RB0452T      | 2.2M        | Rd |
| R315a,b    | RB0452T      | 2.2M        | Rd |

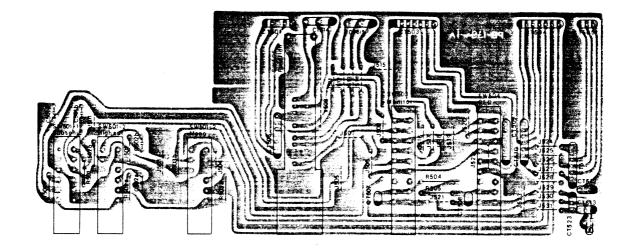
### PB-1393-4A Parts List



| Symbol No. | No.       | Description     |
|------------|-----------|-----------------|
| (Variable) | Resistor) |                 |
|            | RV0287    | 50KCx2 (treble) |
| VR302      |           | 50KCx2 (bass)   |

| Symbol No.    | No.     | Description       |                 |  |  |
|---------------|---------|-------------------|-----------------|--|--|
| (Push Switch) |         |                   |                 |  |  |
| SW303         | SP0264  | SUL122A (tone in) |                 |  |  |
| (Capacitor    | )       |                   |                 |  |  |
| C318a,b       | CQ1334  | luF               | My              |  |  |
| C319a,b       | CQ1339  | 0.56uF            | My              |  |  |
| C320a,b       | CQ2254  | 0.27uF            | My <sup>.</sup> |  |  |
| C321a,b       | CQ2251  | 0.15uF            | My              |  |  |
| C322a,b       | CQ0009T | 0.047uF           | My              |  |  |
| С323а,Ъ       | CQ0006T | 0.082uF           | My              |  |  |
| C324a,b       | CQ0024T | 0.0015uF          | My              |  |  |
| С325а,Ъ       | CQ0027T | 0.0068uF          | My              |  |  |
| (Resistor)    |         |                   |                 |  |  |
| R316a,b       | RB0452T | 2.2M              | Rd              |  |  |
| R317a,b       | RB0452T | 2.2M              | Rd              |  |  |
| R318a,b       | RB0452T | 2.2M              | Rd              |  |  |
| R319a,b       | RB0452T | 2.2M              | Rd              |  |  |
| R320a,b       | RB0452T | 2.2M              | Rd              |  |  |
| R321a,b       | RB0382T | 2.7K              | Rd              |  |  |
| R322a,b       | RB0366T | 560               | Rd              |  |  |
| R323a,b       | RB0396T | 10к               | Rd              |  |  |
| R324a,b       | RB0378T | 1.8K              | Rd              |  |  |
| R325a,b       | RB0444T | 1M                | Rd              |  |  |

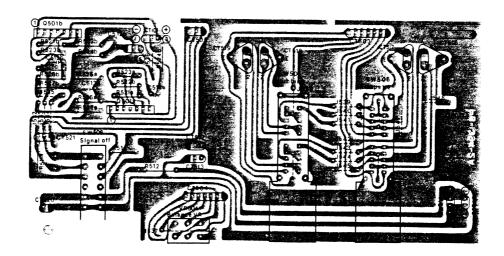
### PB1394-1A Parts List



|              |            | 7            |                     |
|--------------|------------|--------------|---------------------|
|              | Symbol No. | Stock<br>No. | Description         |
|              | (Switch)   |              |                     |
|              | SW501      | SP0265       | SUL331A (subsonic   |
|              |            |              | high cut            |
|              |            |              | mono)               |
|              | SW503      | SP0266       | SUL121A (monitor)   |
|              | SW504      | SP0266       | SUL121A (recording) |
|              | SW506      | SR0172       | SRZW (function)     |
| (Pilot Lamp) |            |              |                     |
|              | P.L.       | AL0069       | 12V 75mA            |

| Symbol No. | Stock<br>No. | Descript | ion   |      |
|------------|--------------|----------|-------|------|
| (Capacitor | )            | -        |       |      |
| C501a,b    | CQ2256       | 0.33uF   |       | My   |
| C502a,b    | CQ0027T      | 0.0068uF |       | My   |
| (Resistor) |              |          | ····· |      |
| R501a,b    | RB0444T      | 1M       |       | Rd   |
| R502a,b    | RB0444T      | 1M       |       | , Rd |
| R503a,b    | RB0392T      | 6.8K     |       | Rd   |
| R504a,b    | RS2519L      | 390      | 1/2W  | Rf   |
| R505a,b    | RS2519L      | 390      | 1/2W  | Rf   |

### PB1394-2A Parts List



| Symbol No.          | Stock<br>No. | Description      |    |
|---------------------|--------------|------------------|----|
| (Variable Resistor) |              |                  |    |
| VR504               | RV 0288      | 250KMN (balance) |    |
| (Resistor)          | (Resistor)   |                  |    |
| R511a,b             | RB0396T      | 10K              | Rd |
| R512                | RS2519L      | 390 1/2W         | Rd |

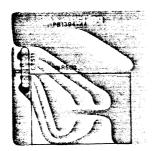
| Symbol No. | Stock<br>No. | Description          |  |
|------------|--------------|----------------------|--|
| (Switch)   |              |                      |  |
| SW506      | SR0162       | SRZW42N (tapel)      |  |
| SW507      | SR0163       | SRZW43N (dubbing)    |  |
| SW508      | SP0267       | SUL122A (signal off) |  |
|            |              |                      |  |

### PB1394-3A Parts List



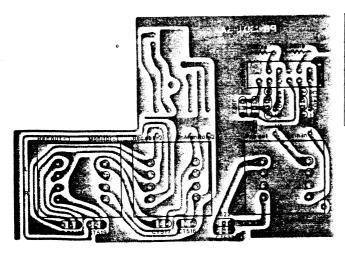
| Symbol No.  | Stock<br>No. | Descri  | ption      |       |
|-------------|--------------|---------|------------|-------|
| (Push Swite | ch)          |         |            |       |
| 1           | SP0268       | SUF12 ( | phono stra | ight) |
| (Resistor)  |              |         |            |       |
| R520        | RS2519L      | 390     | 1/2W       | Rd    |

### PB1394-4A Parts List



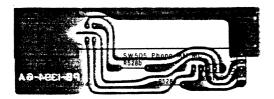
| Symbol No. | Stock<br>No. | Description    |
|------------|--------------|----------------|
| (Variable  | Resistor)    |                |
| VR502      | RV0290       | 50Kx2 (volume) |

### PB1394-5A Parts List



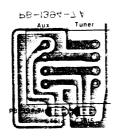
| Symbol No.  | Stock<br>No.  | Description     |             |  |  |
|-------------|---------------|-----------------|-------------|--|--|
| (4P Pin Jac | (4P Pin Jack) |                 |             |  |  |
|             | AT0150        | T5757-AA        |             |  |  |
| (Slide Swit | ch)           |                 |             |  |  |
| SW601       | SS0135        | SSB04202(signal | processing) |  |  |
| (Resistor)  |               |                 |             |  |  |
| R601a,b     | RB0412T       | 47K             | Rd          |  |  |

### PB1394-6A Parts List



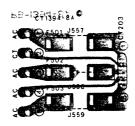
| Symbol No.  | Stock<br>No.          | Description             |  |  |
|-------------|-----------------------|-------------------------|--|--|
| (Slide Rota | (Slide Rotary Switch) |                         |  |  |
| SW505       | SR0161                | SRZWMM (cartridge muto) |  |  |
| (Resistor)  | (Resistor)            |                         |  |  |
| R528a,b     | RB0416T               | 68K Rd                  |  |  |

### PB1394-7A Parts List



| Symbol No.    | Stock No. | Descript | ion |    |
|---------------|-----------|----------|-----|----|
| (4P Pin Jack) |           |          |     |    |
|               | AT0150    | T5757-AA |     |    |
| (Capacitor)   | )         |          |     |    |
|               | CE1718    | 22uF     | 16V | E1 |

#### PB1394-8A Parts List



| Symbol No.  | Stock<br>No.  | Description    |  |  |  |
|-------------|---------------|----------------|--|--|--|
| (Fuse Holde | (Fuse Holder) |                |  |  |  |
|             | AH0028        | 23165102-C (A) |  |  |  |
| (Fuse)      |               |                |  |  |  |
| F501        | BF0206        | T500mA (A)     |  |  |  |
| F502        | BF0206        | T500mA (A)     |  |  |  |
| F503        | BF0208        | T1A (A)        |  |  |  |

### PB1394 LED PCB Parts List





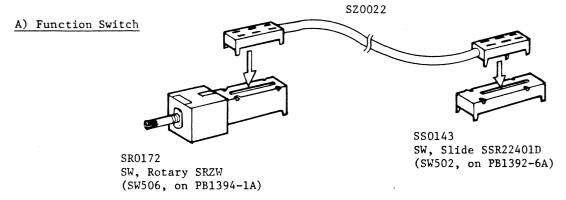


| Symbol No | Stock<br>No. | Description                    |  |
|-----------|--------------|--------------------------------|--|
| (LED)     |              |                                |  |
| D501      | TD0233       | EBG5534S grn. (monitor)        |  |
| D502      | TD0232       | EAA5534S org. (recording)      |  |
| D503      | TD0232       | EAA5534S org. (signal off)     |  |
| D504      | TD0233       | EBG5534S grn. (pholo straight) |  |

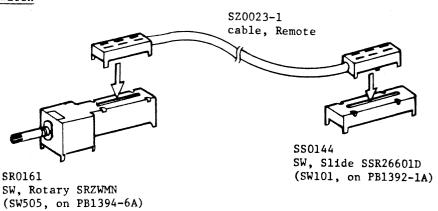
### Miscellaneous Parts List

| Symbol No.  | Stock No. | Description      | Remarks   |
|-------------|-----------|------------------|-----------|
| (Switch)    |           |                  |           |
| SW001       | SP0090    | ADG5P502 5A      | Power     |
|             | SP0037    | SDG5P001 10A     | Power (J) |
| (Lamp)      |           |                  |           |
| P.L.        | AL0069    | 12V 75mA         | Pilot     |
| (Fuse)      |           |                  |           |
| F001        | BF0400    | 6A (L-510)       | (EZ,J)    |
|             | BF0403    | 7A (L-530)       | (EZ,J)    |
|             | BF0213    | 4A(T)            | (AK,AG)   |
|             | BF0118    | 4A (L-510)       | (EK,EG)   |
|             | BF0119    | 5A (L-530)       | (EK,EG)   |
| (Diode)     |           |                  |           |
| D001        | TD0110    | S5VB40F (L-510)  |           |
|             | TD0182    | S10VB40F (L-530) |           |
| (Capacitor) |           |                  |           |
| C001        | CU0012    | 0.01uF 400V My   | (J)       |
|             | CU0081    | 0.01uF 400V My   |           |
| C002        | CU0012    | 0.01uF 400V My   | (J)       |
|             | CU0081    | 0.01uF 400V My   |           |
| C003        | CK0159    | 0.01uF 25V Ce    |           |
| C506        | CE1453    | 15,000uF 63V E1  |           |
|             | CE1456    | 30,000uF 71V E1  |           |
| C507        | CE1453    | 15,000uF 63V E1  |           |
|             | CE1456    | 30,000uF 71V E1  |           |
| C508        | CQ2006    | 0.47uF 120V Fi   |           |
| C509        | CQ2006    | 0.47uF 120V Fi   |           |
| C510        | CQ0184    | 1500pF 250V St   |           |
| C511        | CQ0184    | 1500pF 250V St   |           |

### Procedure (Remoto Switch)



#### B) Cartridge Switch



#### **Destination's Parts List**

|   | Power Source         |                                  |                                  |                                  |
|---|----------------------|----------------------------------|----------------------------------|----------------------------------|
| Description                             | EZ<br>120V<br>Canada | AG<br>240V<br>England<br>&       | AD,AM,AK<br>220V<br>Europe       | J<br>100V<br>Japan               |
|   |                      | Oceania                          | J. Grepe                         | - Capan                          |
| Rear Panel (L-530)<br>" " (L-510)       | UC1208-7             | UC1219-2<br>UC1219-1             | UC1219-2<br>UC1219-1             | UC1208-5<br>UC1208-1             |
| AC Cord<br>Stopper, Cord                | BK0018<br>BU0033     | BK0023<br>BU0039                 | BK0022<br>BU0033                 | BK0048<br>BU0080                 |
| Trans, Power (L-530) " " (L-510)        | PT2589               | PT2589A<br>PT2585A               | PT2589A<br>PT2585A               | PT2587<br>PT2583                 |
| SW, Power                               | SP0090               | SP0090                           | SP0090                           | SP0037                           |
| Fuse. Primary (L-530) " " (L-510)       | BF0403<br>(7A)<br>   | BF0213<br>(4A)<br>BF0213<br>(4A) | BF0213<br>(4A)<br>BF0213<br>(4A) | BF0403<br>(7A)<br>BF0400<br>(6A) |
| Holder, Fuse<br>Primary                 | AH0016               | AH0019                           | AH0019                           | AH0016                           |
| AC Voltage Selector<br>Plug:<br>Socket: | AC0014<br>AC0054     | AC0014<br>AC0054                 | AC0014<br>AC0054                 | Non Use<br>Non Use               |
| AC Outlet                               | AC0010               | Non Use                          | Non Use                          | AC0055                           |

#### **Remarks**

Remarks

Capacitor: El... Electrolytic, Ce... Ceramic, ST... Styrol, Mi... Mica,

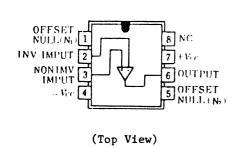
My...Mylar, Pp...Polypropylene, Fi...Film

Resistor: Rd...Carbon, Rf...Flame Proof, Rc...Cement

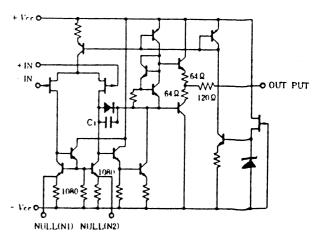
All Resistors are in ohm 1/4 Watt.

### IC Handling Guide

TL-071P (IC113a, b : Stock No. TC0197)



#### Equivalent Circuit (1/2)



### L-510 Schematic Diagram

